Approved for use through 06/30/2008. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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# PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT **ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(b)**

Docket Number (Optional) 47237-5005-00-US

First named	inventor: Kengo AKIMOTO et al.				
Application N	No.: 10/550,711	Art Unit: 1621			
Filed: Septeml		Examiner: Deborah D. Carr			
Title: LIPID-IM	PROVING AGENT AND COMPOSITION CONTAINING LIPID-IMPR	ROVING AGENT			
Mail Stop Pe Commissione P.O. Box 145	er for Patents 50 /A 22313-1450				
	NOTE: If information or assistance is needed in comp Information at (571) 272-3282.	leting this form, please contact Petitions			
action by the	The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the office notice or action plus an extensions of time actually obtained.				
	APPLICANT HEREBY PETITIONS FOR REVIV	AL OF THIS APPLICATION			
	NOTE: A grantable petition requires the following items (1) Petition fee; (2) Reply and/or issue fee; (3) Terminal disclaimer with disclaimer fee - refiled before June 8, 1995; and for all design (4) Statement that the entire delay was uninter	quired for all utility and plant applications applications; and			
	e entity-fee \$ (37 CFR 1.17(m)). Applicant cla r than small entity – fee \$ <u>1540.00</u> (37 CFR 1.17	·			
2. Reply and A.	/or fee The reply and/or fee to the above-noted Office action i the form of Petition for Extension of Time, Amendment and Res	n ponse, IDS (identify type of reply):			
	has been filed previously onis enclosed herewith.	06/09/2008 S7FUNTE1 00880944 19559711			
B.	The issue fee and publication fee (if applicable) of \$ has been paid previously on is enclosed herewith.	00,07,000 32,000 1540.60 0 			

[Page 1 of 2]

This collection of information is required by 37 CFR 1.137(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/64 (01-08)
Approved for use through 06/30/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Terminal disclaimer with disclaimer fee				
Since this utility/plant application was filed of	on or after June 8, 1995, no terminal disclaimer is required.			
	7 CFR 1.20(d)) of \$ for a small entity or \$			
PTO/SB/63).	· ·			
filing of a grantable petition under 37 CFR 1.1370 Trademark Office may require additional information	red reply from the due date for the required reply until the (b) was unintentional. [NOTE: The United States Patent and tion if there is a question as to whether either the er 37 CFR 1.137(b) was unintentional (MPEP 711.03(c).			
subsections (III)(C) and (D)).]				
	WARNING:			
Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.				
MON V =				
- Munedia Utes	6-6-08			
Signature	Date			
Mercedes K. Meyer, Ph.D., Esq.				
Typed or printed name	Registration Number, if applicable			
DRINKER BIDDLE & REATH LLP 202-842-8800				
Address Telephone Number				
4500 K Street NIM Machineten DC	00005			
1500 K Street, NW, Washington, DC : Address	20005			
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#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	) Confirmation No.: 3090			
Kengo AKIMOTO et al.	) Examiner: Deborah D. Carr			
Application No.: 10/550,711	) Group Art Unit: 1621			
Filed: September 26, 2005	)			
For: LIPID-IMPROVING AGENT AND COMPO	) SITION CONTAINING LIPID-			

# STATEMENT TO ACCOMPANY PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 C.F.R. § 1.137(b)

#### **MAIL STOP: PETITIONS**

Commissioner for Patents U.S. Patent and Trademark Office Customer Window, Randolph Building Alexandria, VA 22314

Sir:

This Statement accompanies a Petition for Revival of an Application for Patent Abandoned Unintentionally Under 357 C.F.R. § 1.137(b). Applicants are in receipt of the Notice of Abandonment dated May 30, 2008.

It is submitted that Applicants filed with the U.S. Patent and Trademark Office on April 4, 2008, an Amendment and Response Under 37.C.F.R. §1.111, a Petition for a three-month extension of time, and an Information Disclosure Statement in the above-identified application (copies attached including date stamped receipt card and proof of payment of the fee for extension of time). However, the documents submitted consistently, although erroneously, referred to Application No. 10/550,771, rather than Application No. 10/550,711 (the present application), on the first page of all documents submitted. Subsequent pages, if any, correctly identified the application as Application No. 10/550,711. All other identifying information was

U.S. Appln. No.: 10/550,711

Page 2

correct as submitted. It is also noted that Mr. J. Chase from the U.S. Patent and Trademark

Office, Petitions Office (571-272-3282) has indicated that the documents scanned in PAIR have

now been transferred successfully to the present application.

It is therefore respectfully submitted that the abandonment of the present application was

entirely unintentional as the papers were timely filed but contained a clerical error. It is

requested that this Petition be granted and the Notice of Abandonment be rescinded in the above-

identified application. Should the Office have any questions or require any further information

in this matter, the Office is respectfully requested to contact the undersigned.

Respectfully submitted,

DRINKER, BIDDLE & REATH LLP

Dated: June 6, 2008

CUSTOMER NO. 055694 DRINKER, BIDDLE & REATH LLP

1500 K Street, N.W., Suite 1100 Washington, D.C. 20005-1209

Tel: (202) 842-8800 Fax: (202)-204-0289



Suite 1100 1500 K Street, N.W. Washington, DC 20005-1209 202-842-8800 Phone 202-842-8465/66 Fax

The official date stamp of the United States Patent and Trademark Office hereon is acknowledgment of the filing of:

I.	<b>Application</b>	<u>on</u>	m.	Post Issuance
	☐ A. Ne	ew Application		A Maintenance Fee
		Provisional		B. Request for Correction of Letters Patent
		Utility		2. Request for Correction of Letters Patent
	. <u>                                      </u>	Design	IV.	Recordation
		Plant		☐ A. Assignment Agreement (Number of
	D. CO	ntinuation/Divisional/Continuation- In-Part		Patents Covered:)
		§ 1.53(b)		B. Security Interest Agreement (Number of
		§ 1.53 (f) – fee not included		Patents Covered: )
	C. Spe	ecification: Sheet(s)		C. Change of Name, Merger or Other
		Claim(s)		Transfer Document (Number of
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	C. Clai	m to Priority & Priority		C. Appointment of Domestic Representative
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	D. Info	rmation Disclosure Statement		E.
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Client		47237		
File No		5005/00US		
Matter	No.:	216114	<u> </u>	
Title:		LIPID-IMPROVING AGENTA ND CON	IPOSITI	ION CONTAINING LIPID-IMPROVING
	( -)	AGENT		·
Invento	· ·	Kengo AKIMOTO et al.	<del></del>	
	Patent. No.	10/550,771		
Attorne Secreta	•	Mercedes K. Meyer, Ph.D., Esq.	·	&
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12		<b>*</b>	Ú.S. Patent an	d Trademark Office; U.S. DEPA	OMB 0651-0031 ARTMENT OF COMMERCE
N. S.	W & TRAC				Docket Number (Optional)
PETI	TION	FOR EXTE	NSION OF TIME U	NDER 37 CFR 1.136(a	47237-5005-00-US
In re a	pplicati	on of: Keng	o AKIMOTO et al.		
Applic	cation N	lo. 10/550,7	71	Filed September 26, 20	05
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above-	identifie	d application	iovisions of 37 CFR 1.1.	36(a) to extend the period	for filing a reply in the
		a application	·	$\sim$ (() (D) $\vee$	7
The rec	quested e	extension and	appropriate non-small-	tion for are as follows cl	neck time period desired):
				Large Entity	Small Entity
	0	ne month (3	7 CFR 1.17(a)(1))	\$ 120	\$ 60
			37 CFR 1.17(a)(2))	\$ 460	\$ 230
	XX T	hree months	(37 CFR 1.17(a)(3))	\$1050	\$ 525
	F	our months (	37 CFR 1.17(a)(4))	\$1640	\$ 820
	Fi	ve months (	37 CFR 1.17(a)(5))	\$2230	\$1115
	Appli	cant claims	small entity status. See		1 41113
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	Paymo	ent by credit	card. Form PTO-203	8 is attached.	
	The D	irector has a	lready been authorized	to charge fees in this a	pplication to a Deposit
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1		Applicant			
İ		assignee o	f record of the entire in	nterest. See 37 CFR 3.7	1. Statement under 37
-	37		b) is enclosed. (Form	PTO/SB/96).	
	X		agent of record.		
- 1		Attorney o	r agent of record unde	r 37 CFR 1.34(a).	
1		1 Kegisua	ation number if acting unde	er 37 CFR 1.34(a):	
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		ļ			
Signature					
Typed Name   Mercedes K		Mercedes	K. Meyer, Ph.D., Esq.	Registration No.	44,939
Date		4, 2008			
NOTE: Si required	gnatures	of all the inve	ntors or assignees of record	of the entire interest or their	r representative(s) are
X	Total of	one (1) forms	if more than one signature is are submitted.	is required, see below.	
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**PATENT** 

ATTORNEY DOCKET NO.: 47231-5005-00-US

# IN THE CAPPED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	) Confirmation No.: 3090			
Kengo AKIMOTO et al.	) Examiner: Deborah D. Carr			
Application No.: 10/550,771	) Group Art Unit: 1621			
Filed: September 26, 2005	)			
	)			

For: LIPID-IMPROVING AGENT AND COMPOSITION CONTAINING LIPID-

**IMPROVING AGENT** 

MAIL STOP: AMENDMENT

Commissioner for Patents
U.S. Patent and Trademark Office
Customer Window, Randolph Building
Alexandria, VA 22314



Sir:

#### AMENDMENT AND RESPONSE UNDER 37 C.F.R. § 1.111

In response to the Office Action mailed October 4, 2007, the Office is respectfully requested to consider and enter the following amendments to the instant application. A Petition for a three-month extension of time, extending the period of response until April 4, 2008 is attached hereto.

Amendments to the Specification being on page 2.

Amendments to the Claims begin on page 3.

Remarks begin on page 11.

U.S. Appln. No.: 10/550,711

Response to Office Action Dated: October 4, 2007

Response Dated: April 4, 2008

Page 2

### **IN THE SPECIFICATION:**

On page 1, line 5 (before "Industrial Field") please insert the following:

(.:

Cross Reference to Related Applications

This application is a national stage of PCT/JP2004/004282 filed March 26, 2004, and claims benefit of Japanese Application No. 2003-088631 filed March 27, 2003.

ATTORNEY DOCKET NO. 31-5005-00-US U.S. Appln. No.: 10/550,711

Response to Office Action Dated: October 4, 2007

Response Dated: April 4, 2008

Page 3

#### IN THE CLAIMS:

Please amend the claims as follows:

Claim 1 (Currently Amended): A liquid-improving agent containing a triglyceride(s) where a poly-unsaturated fatty acid is bonded to 2-position of the triglyceride(s), wherein,

- (1) the poly-unsaturated fatty acid is an omega-9 type unsaturated fatty acid;
- (2)the poly-unsaturated fatty acid is an omega-6 type unsaturated fatty acid selected from the group consisting of 9,12-octadecadienoic acid (linolenic acid) 18:2\omega6, 6,9,12octadecatrienoic acid (y-linolenic acid) 18:3\omega6, 8,11,14-eicosatrienoic acid (dihomo-y-linolenic acid) 20:3ω6, 5,8,11,14-eicosatrienoic acid (arachidonic acid) 20:4ω6, 7,10,13,16docosatetraenoic acid 22:4ω6, and 4,7,10,13,16-docosapentaenoic acid 22:5ω6; or
- (3) the poly-unsaturated fatty acid is an omega-3 type unsaturated fatty acid selected from the group consisting of 9,12,15-octadecatrienoic acid ( $\alpha$ -linolenic acid) 18:3 $\omega$ 3, 6,9,12,15octadecatetraenoic acid (stearidonic acid) 18:4ω3, 11,14,17-eicosatrienoic acid (dihomo-αlinolenic acid) 20:3ω3, 8,11,14,17-eicosatetraenoic acid 20:4ω3, and 7,10,13,16,19docosapentaenoic acid 22:5ω3.

Claim 2 (Original): The lipid-improving agent according to claim 1, wherein the agent contains a triglyceride(s) where a poly-unsaturated fatty acid is bonded to 2-position and saturated fatty acid and/or mono-unsaturated fatty acid are/is bonded to 1,3-positions of the triglyceride(s).

Claims 3-10. (Canceled)

U.S. Appln. No.: 10/550,711

Response to Office Action Dated: October 4, 2007

Response Dated: April 4, 2008

Page 4

Claim 11 (Previously Presented): The lipid-improving agent according to claim 1, wherein the omega-9 type unsaturated fatty acid is 6,9-octadecadienoic acid  $18:2\omega9$ , 8,11-eicosadienoic acid  $20:2\omega9$  or 5,8,11-eicosatrienoic acid (mead acid)  $20:3\omega9$ .

(31)

Claim 12 (Original): The lipid-improving agent according to claim 2, wherein the saturated fatty acid or the mono-unsaturated fatty acid is selected from octanoic acid (caprylic acid) 8:0, decanoic acid (capric acid) 10:0, dodecanoic acid (lauric acid) 12:0, tetradecanoic acid (myristic acid) 14:0, hexadecanoic acid (palmitic acid) 16:0, octadecanoic acid (stearic acid) 18:0, 9-octadecanoic acid (oleic acid) 18:1ω9, arachidic acid 20:0 and behenic acid 22:0 and the fatty acids bonding to 1- and 3-positions are same or combined.

Claim 13 (Currently Amended): The lipid-improving agent according to claim 1, wherein the triglyceride(s) is selected from 1,3-dipalmitoyl-2-arachidonoyl glyceride (16:0-20:4ω6-16:0), 1,3-dipalmitoyl-2-5,8,11,14,17-eicosapentanoyl glyceride (16:0-20:5ω3-16:0), 1,3-dipalmitoyl-2-4,7,10,13,16,19-docosahexanoyl glyceride (16:0-22:6ω3-16:0), 1,3-dipalmitoyl-2-dihomo-γ-linolenoyl glyceride (16:0-20:3ω6-16:0), 1,3-dipalmitoyl-2-meadnoyl glyceride (16:0-20:3ω9-16:0), 1,3-dicapryloyl-2-arachidonoyl glyceride (8:0-20:4ω6-8:0), 1,3-dicapryloyl-2-5,8,11,14,17-eicosapentanoyl glyceride (8:0-20:5ω3-8:0), 1,3-dicapryloyl-2-dihomo-γ-linolenoyl glyceride (8:0-20:3ω6-8:0), 1,3-dicapryloyl-2-meadnoyl glyceride (8:0-20:3ω9-8:0), 1,3-dioleoyl-2-arachidonoyl glyceride (18:1ω9-20:4ω6-18:1ω9), 1,3-dioleoyl-2-5,8,11,14,17-eicosapentanoyl glyceride (18:1ω9-20:5ω3-18:1ω9), 1,3-oleoyl-2-4,7,10,13,16,19-docosahexanoyl glyceride (18:1ω9-22:6ω3-18:1ω9), 1,3-dioleoyl-2-dihomo-γ-linolenoyl glyceride (18:1ω9-20:3ω6-18:1ω9) and/or 1,3-dioleoyl-2-meadnoyl glyceride (18:1ω9-20:3ω9-18:1ω9).

U.S. Appln. No.: 10/550,711

Response to Office Action Dated: October 4, 2007

Response Dated: April 4, 2008

Page 5

Claim 14 (Original): The lipid-improving agent according to claim 1, wherein it lowers neutral fat (triglyceride(s)) and/or cholesterol in blood.

Claim 15 (Original): The lipid-improving agent according to claim 1, wherein it increases HDL-cholesterol in blood.

Claim 16 (Original): The lipid-improving agent according to claim 1, wherein it burns stored fat.

Claim 17 (Original): The lipid-improving agent according to claim 1, wherein it burns edible fat.

Claim 18 (Original): The lipid-improving agent according to claim 1, wherein it is mediated by a transcription factor of an intranuclear receptor type (PPAR).

Claim 19 (Previously Presented): The lipid-improving agent according to claim 1, wherein the PPAR is PPARα of liver and enhances PPARα and/or related gene expression.

Claim 20 (Previously Presented): The lipid-improving agent according to claim 1, wherein the related gene is hepatic β-oxidation gene.

Claim 21 (Previously Presented): The lipid-improving agent according to claim 1, wherein the PPAR is a PPARγ of fat tissue and suppresses PPARγ and/or related gene expression.

Claim 22 (Currently Amended): A composition having a lipid-improving action which contains a triglyceride(s) where a poly-unsaturated fatty acid is bonded to 2-position of the triglyceride(s), wherein,

U.S. Appln. No.: 10/550,711

Response to Office Action Dated: October 4, 2007

Response Dated: April 4, 2008

Page 6

- (1) the poly-unsaturated fatty acid is an omega-9 type unsaturated fatty acid;
- (2) the poly-unsaturated fatty acid is an omega-6 type unsaturated fatty acid selected from the group consisting of 9,12-octadecadienoic acid (linolenic acid) 18:2ω6, 6,9,12-octadecatrienoic acid (γ-linolenic acid) 18:3ω6, 8,11,14-eicosatrienoic acid (dihomo-γ-linolenic acid) 20:3ω6, 5,8,11,14-eicosatrienoic acid (arachidonic acid) 20:4ω6, 7,10,13,16-docosatetraenoic acid 22:4ω6 or 4,7,10,13,16-docosapentaenoic acid 22:5ω6; or
- (3) the poly-unsaturated fatty acid is an omega-3 type unsaturated fatty acid selected from the group consisting of 9,12,15-octadecatrienoic acid (α-linolenic acid) 18:3ω3, 6,9,12,15-octadecatetraenoic acid (stearidonic acid) 18:4ω3, 11,14,17-eicosatrienoic acid (dihomo-α-linolenic acid) 20:3ω3, 8,11,14,17-eicosatetraenoic acid 20:4ω3, and 7,10,13,16,19-docosapentaenoic acid 22:5ω3.

Claim 23 (Original): The composition having a lipid-improving action according to claim 22, wherein the composition contains a triglyceride(s) where a poly-unsaturated fatty acid is bonded to 2-position and saturated fatty acid and/or mono-unsaturated fatty acid are/is bonded to 1,3-positions of the triglyceride(s).

Claims 24-31 (Canceled).

Claim 32 (Currently Amended): The composition according to claim [[29]] <u>22</u>, wherein the omega-9 type unsaturated fatty acid is 6,9-octadecadienoic acid 18:2ω9, 8,11-eicosadienoic acid 20:2ω9 or 5,8,11-eicosatrienoic acid (mead acid) 20:3ω9.

Claim 33 (Original): The composition according to claim 23, wherein the saturated fatty acid or the mono-unsaturated fatty acid is selected from octanoic acid (caprylic acid) 8:0, decanoic acid (capric acid) 10:0, dodecanoic acid (lauric acid) 12:0, tetradecanoic acid (myristic acid) 14:0, hexadecanoic acid (palmitic acid) 16:0, octadecanoic acid (stearic acid) 18:0, 9-

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octadecanoic acid (oleic acid) 18:1ω9, arachidic acid 20:0 and behenic acid 22:0 and the fatty acids bonding to 1- and 3-positions are same or combined.

Claim 34 (Currently Amended): The composition according to claim 22, wherein the triglyceride(s) is selected from 1,3-dipalmitoyl-2-arachidonoyl glyceride (16:0-20:4ω6-16:0), 1,3-dipalmitoyl-2-5,8,11,14,17-eicosapentanoyl glyceride (16:0-20:5ω3-16:0), 1,3-dipalmitoyl-2-4,7,10,13,16,19-docosahexanoyl glyceride (16:0-22:6ω3-16:0), 1,3-dipalmitoyl-2-dihomo-γ-linolenoyl glyceride (16:0-20:3ω6-16:0), 1,3-dipalmitoyl-2-meadnoyl glyceride (16:0-20:3ω9-16:0), 1,3-dicapryloyl-2-arachidonoyl glyceride (8:0-20:4ω6-8:0), 1,3-dicapryloyl-2-5,8,11,14,17-eicosapentanoyl glyceride (8:0-20:5ω3-8:0), 1,3-dicapryloyl-2-dihomo-γ-linolenoyl glyceride (8:0-20:3ω6-8:0), 1,3-dicapryloyl-2-meadnoyl glyceride (8:0-20:3ω9-8:0), 1,3-dioleoyl-2-arachidonoyl glyceride (18:1ω9-20:4ω6-18:1ω9), 1,3-dioleoyl-2-5,8,11,14,17-eicosapentanoyl glyceride (18:1ω9-20:5ω3-18:1ω9), 1,3-dioleoyl-2-4,7,10,13,16,19-docosahexanoyl glyceride (18:1ω9-20:5ω3-18:1ω9), 1,3-dioleoyl-2-dihomo-γ-linolenoyl glyceride (18:1ω9-20:3ω6-18:1ω9), 1,3-dioleoyl-2-dihomo-γ-linolenoyl glyceride (18:1ω9-20:3ω6-18:1ω9), 1,3-dioleoyl-2-meadnoyl glyceride (18:1ω9-20:3ω6-18:1ω9).

Claim 35 (Original): The composition according to claim 22, wherein it lower neutral fat (triglyceride(s)) and/or cholesterol in blood.

Claim 36 (Original): The composition according to claim 22, wherein it increases HDL-cholesterol in blood.

Claim 37 (Original): The composition according to claim 22, wherein it burns stored fat.

Claim 38 (Original): The composition according to claim 22, wherein it burns edible fat.

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Claim 39 (Original): The composition according to claim 22, wherein it is mediated by a transcription factor of an intranuclear receptor type (PPAR).

Claim 40 (Previously Presented): The composition according to claim 22, wherein the PPAR is PPARα of liver and enhances PPARα and/or related gene expression.

Claim 41 (Previously Presented): The composition according to claim 22, wherein the related gene is hepatic  $\beta$ -oxidation gene.

Claim 42 (Previously Presented): The composition according to claim 22, wherein the PPAR is a PPAR of fat tissue and suppresses PPAR and/or related gene expression.

Claim 43 (Previously Presented): The composition according to claim 1, wherein it is a food composition or a pharmaceutical composition.

Claim 44 (Currently Amended): A food composition which contains a triglyceride(s) where a poly-unsaturated fatty acid is bonded to 2-position of the triglyceride(s) <u>saturated fatty acid are/is bonded to 1,3-positions of the triglyceride(s)</u> in such a manner that a daily ingested amount of the triglyceride(s) <u>where a poly-unsaturated fatty acid is bonded to 2-position of the triglyceride(s)</u> for an adult per day [[in]] <u>is made 0.001 to 20 g in terms of the amount of the poly-unsaturated fatty acid.</u>

# Claim 45. (Canceled).

Claim 46 (Previously Presented): The composition according to claim 43, wherein the composition contains a triglyceride(s) where arachidonic acid is bonded to 2-position and saturated fatty acid and/or mono-unsaturated fatty acid are/is bonded to 1,3-positions of the triglyceride(s) in such a manner that a daily ingested amount of the triglyceride(s) where

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arachidonic acid is bonded to 2-position and saturated fatty acid and/or mono-unsaturated fatty acid are/is bonded to 1,3-positions of the triglyceride(s) for an adult per day in made 0.001 to 20 g in terms of the amount of arachidonic acid.

Claim 47 (Previously Presented): The food composition according to claim 43, wherein the composition contains not less than 0.001% by weight of a composition in which the triglyceride(s) is selected from 1,3-dipalmitoyl-2-arachidonoyl glyceride (16:0-20:4ω6-16:0), 1,3-dipalmitoyl-2-5,8,11,14,17-eicosapentanoyl glyceride (16:0-20:5ω3-16:0), 1,3-dipalmitoyl-2-4,7,10,13,16,19-docosahexanoyl glyceride (16:0-22:6ω3-16:0), 1,3-dipalmitoyl-2-dihomo-γ-linolenoyl glyceride (16:0-20:3ω6-16:0), 1,3-dipalmitoyl-2-meadnoyl glyceride (16:0-20:3ω9-16:0), 1,3-dicapryloyl-2-arachidonoyl glyceride (8:0-20:4ω6-8:0), 1,3-dicapryloyl-2-5,8,11,14,17-eicosapentanoyl glyceride (8:0-20:5ω3-8:0), 1,3-dicapryloyl-2-4,7,10,13,16,19-docosahexanoyl glyceride (8:0-20:3ω6-8:0), 1,3-dicapryloyl-2-meadnoyl glyceride (8:0-20:3ω9-8:0), 1,3-dioleoyl-2-arachidonoyl glyceride (18:1ω9-20:4ω6-18:1ω9), 1,3-dioleoyl-2-5,8,11,14,17-eicosapentanoyl glyceride (18:1ω9-20:5ω3-18:1ω9), 1,3-dioleoyl-2-4,7,10,13,16,19-docosahexanoyl glyceride (18:1ω9-20:3ω6-18:1ω9), 1,3-dioleoyl-2-dihomo-γ-linolenoyl glyceride (18:1ω9-20:3ω6-18:1ω9), 1,3-dioleoyl-2-dihomo-γ-linolenoyl glyceride (18:1ω9-20:3ω6-18:1ω9) and/or 1,3-dioleoyl-2-meadnoyl glyceride (18:1ω9-20:3ω9-18:1ω9).

Claim 48 (Previously Presented): The composition according to claim 43, wherein the food composition is functional food, nutritional supplement, designated health food or food for aged people.

Claim 49 (Original): A process for the production of a composition having a lipid-improving action which is a process for the production of a food composition, characterized in that, a triglyceride(s) where a poly-unsaturated fatty acid is bonded to 2-position and saturated fatty acid and/or mono-unsaturated fatty acid are/is bonded to 1,3-positions is compounded.

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either solely or jointly, with a food material which does not substantially contains a triglyceride(s) where a poly-unsaturated fatty acid is bonded to 2-position and saturated fatty acid and/or mono-unsaturated fatty acid are/is bonded to 1,3-positions or, if contained, the amount is little.

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#### REMARKS

#### 1. Status of the Claims

Claims 1-49 stand pending. Claims 1-49 stand rejected.

After entry of the above amendments, claims 1, 2, 11-23, 32-44, and 46-49 stand pending; claims 3-10, 24-31, and 45 stand canceled. Claims 1, 13, 22, 32, 34, and 44 stand amended.

Support for the amendments to claims 1, 13, 22, 32, 34, and 44 can be found at least for example in the original claims. For example, the limitations of claims 3-10 in part are introduced in to claim 1, with claims 3-10 canceled. Similarly the limitations of claims 24-31 in part are introduced in to claim 22, and claims 24-31 stand canceled. Cancellation of and amendments to the claims have been made without prejudice to or disclaimer of the subject matter contained therein. Applicants reserve the right to file a continuation and/or divisional on any subject matter canceled by way of amendment.

## 2. Acknowledgement of Certified Priority Document

Applicants note with appreciation the acknowledgement of receipt of the certified priority documents.

#### 3. Acknowledgement of Information Disclosure Statement

Applicants note with appreciation the acknowledgement of the Information Disclosure Statement filed September 26, 2005. Applicants submit herewith a new Information Disclosure Statement for consideration. Applicants respectfully request acknowledgement with the Office's next communication.

# 4. Rejection of the Claims Under 35 U.S.C. § 102(b)

Claims 1-49 are rejected under 35 U.S.C. § 102(b) as being anticipated by (1) JP 2002-180082 or (2) WO 02/06505 or (3) Kawashima et al. or (4) Namal et al. or (5) Yoshida et al. or

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(6) under 35 U.S.C. § 102(a) as being anticipated by WO 03/004667. The Office alleges that claims 2-21, 23-43, and 45-58 purportedly would "not contain any features which, in combination with the features of any claim to which they refer render them novel, as the features of these dependent claims have already been employed for the same purposes in similar compositions and processes...." The Office alleges the following with regard to each of the references:

- JP 2002-180082 (English Abstract only) allegedly discloses a structured lipid having an omega-3 fatty acid in the second position, its use in foods and for preparing a composition having a lipid improving action.
- WO 02/06505 (Abstract) allegedly discloses triglycerides with polyunsaturates in the sn-2 position and its use in foods.
- Kawashima et al. allegedly discloses the production of foods with lipid improving functions containing triglycerides with polyunsaturated fats in the sn-2 position and saturates in the sn1/3 positions (Abstract and page 611).
- Namal et al. allegedly discloses a food oil compositions which have lipid improving function containing triglycerides having omega 3 and omega 6 fatty acids in the sn-2 position (page 803).
- Yoshida et al., discloses food oil compositions from fish which have a lipid (improving function which comprises structured lipids having polyunsaturates in the sn-2 position (Abstract)
- WO 03/004667 allegedly discloses a triglyceride having a polyunsaturated fatty acid n the sn-2 position and its use in foods (Abstract).

See Office Action, pages 2-3.

Applicants traverse the rejection to the extent it is applied to the claims as presently amended. "Anticipation requires the presence in a single prior art disclosure of all elements of a claimed invention arranged as in the claims". <u>Jamesbury Corp. v. Litton Industrial Products</u>, Inc., 225 U.S.P.Q. 253, 256 (Fed. Cir. 1985).

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#### 4.1 JP 2002-180082 [hereinafter the '082 application]

The '082 application describes the productions of a structural triglyceride having  $\omega$ 3-polyunsaturated fatty acid at position 2, and having middle chain fatty acids at positions 1 and 3, and the use thereof for treatment of some diseases or symptoms. However, the '082 application does not describe the triglycerides recited in the amended claims. Thus, the '082 application does not teach or suggest all the elements of the claims as amended. Accordingly, the rejection can be withdrawn in view of this reference.

#### 4.2 Kawashima et al., JAOCSD (2001)

Kawashima describes an enzymatic process for production of a structural lipid having ω3-polyunsaturated fatty acid at position 2 and having middle chain fatty acids at positions 1 and 3. The polyunsaturated fatty acids are docosahexanoic acid and eicosapentaenoic acid from fish oil and microbial produced arachidonic acid. Kawashima does not describe the triglycerides recited in the amended claims. Thus, Kawashima application does not teach or suggest all the elements of the claims as amended. Accordingly, the rejection can be withdrawn in view of Kawashima.

# 4.3 Sananayake et al., Lipids (2002)

All Sananayake describes is transesterification of oils such as borage oil, evening primrose oil, etc. so as to change positions of fatty acids on glyceride. The reference is thus irrelevant to the claims as amended. The rejection of the claims over this reference can also be withdrawn.

#### 4.4 Yoshida et al., J. Nutr. Sci. Vitaminol. (1999)

Yoshida only describes that in natural seal oil, docosahexanoic acid and eicosapentaenoic acid are mainly positioned in triglyceride and are mainly positioned on position 2 in fish oil. Yoshida does not teach or suggest the presently claimed triglycerides. Accordingly, the rejection of the claims over this reference can also be withdrawn.

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#### 4.5 WO 02/06505

The PCT application describes a process for producing a structural lipid having polyunsaturated fatty acids (docosahexanoic acid, eicosapentaenoic acid, arachidonic acid) on position 2 and middle chain fatty acids on positions 1 and 3. The PCT application therefore does not teach or suggest the triglycerides of the amended claims. Thus, the rejection of the claims over this reference can be withdrawn.

#### 4.6 WO 03/04667

This PCT application describes a process for producing a structural lipid having ω6-polyunsaturated fatty acid (ARA or DGLA) at position 2 and middle chain fatty acids on positions 1 and 3. This PCT application does not teach the triglycerides recited in the amended claims. Thus, the PCT application does not teach or suggest the amended claims. The rejection of the claims over this reference can also be withdrawn.

Therefore, none of the references teach or suggest all the limitations of the claims as amended. Accordingly, the rejection under §102(a) or (b) over these references can be withdrawn, and the claims allowed.

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# CONCLUSION

If there are any other fees due in connection with the filing of this Amendment, please charge the fees to our Deposit Account No. 50-0573. If a fee is required for an extension of time under 37 C.F.R. § 1.136 not accounted for above, such an extension is requested, and the fee should also be charged to our Deposit Account.

Respectfully submitted,

DRINKER, BIDDLE & REATH LLP

Dated: April 4, 2008

derecdes K. Meyer Ph.D., Esq

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# IN THE UNITED TATES PATENT AND TRADEMARK OFFICE

In re A	Applicat	ion of: Kengo AKIMOTO et al.	)	Confirmation No.: 3090
Applic	cation N	o.: 10/550,771	)	Group Art Unit: 1621
Filed:	Septen	nber 26, 2005	)	Examiner: Deborah D. Carr
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Sir:		INFORMATION DISCLOS	URE ST	ATEMENT (IDS)
the un	to the a dersigner on the	ed's knowledge, this IDS is being fil	ents listed led before first Offic	d on the attached PTO Form 1449. To the mailing date of a first Office ce Action on the merits after filing an
is bein mailin	attention g filed a g date o	of the Examiner the documents lis	ted on the	§§ 1.56 and 1.97(c), Applicant bring attached PTO Form 1449. This IDS undersigned's knowledge, before the ce, or another action that closes
		The fee of \$180.00 set forth in § 1.	17(p) is i	ncluded herein; or
		• •	foreign p	tion contained in this IDS was first patent office in a counterpart foreign r to the filing of this IDS.
	to the a	37 C.F.R. § 1.97(d): Pursuant to tention of the Examiner the documing filed after the events recited in §	ents listed	d on the attached PTO Form 1449.
		The fee of \$180.00 set forth in § 1.	17(p) is in	ncluded herein; and

Attorney L\_\_ket No.: 47237-5005-00-US

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Applicant submits that each item of information contained in this IDS was first
cited in any communication from a foreign patent office in a counterpart foreign
application not more than three months prior to the filing of this IDS.

A search report or other listing of documents from a counterpart, related, or other application dated <u>August 24, 2004</u>, and having documents cited thereon is attached for the Examiner's consideration. Any of these documents not previously cited, and any additional documents are listed on the PTO Form 1449.

Applicant respectfully requests that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached form. As for any document listed on the accompanying PTO-1449 that is in a language other than English, relevance can be understood from an enclosed English abstract or at least partial translation or from mention in the specification or in a search report for a corresponding application.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that any of the listed documents are material or constitute "prior art." If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicant reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should any of the documents be applied against the claims of the present application.

Except for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this Application, including fees due under 37 C.F.R. § 1.16 and 1.17 which may be required and including any required extension of time fees, or credit any overpayment to Deposit Account No. 50-0573. This paragraph is intended to be a CONSTRUCTIVE PETITION FOR EXTENSION OF TIME in accordance with 37 C.F.R. § 1.136(a)(3).

Respectfully submitted,

Registration No. 44/939

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tercedes K. Meyer Ph.D., Esq.

Dated: April 4, 2008

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